

- 1 1. A method comprising:
2 releasably plugging a heat sink assembly into a
3 printed circuit board.
- 1 2. The method of claim 1 including plugging an upper
2 portion into a lower portion, said upper portion coupled to
3 said heat sink and said lower portion coupled to a printed
4 circuit board.
- 1 3. The method of claim 2 including telescopically
2 plugging said upper portion into said lower portion.
- 1 4. The method of claim 3 including releasably plug
2 locking said lower portion in said printed circuit board.
- 1 5. The method of claim 4 including plugging said
2 lower portion into a hole in said printed circuit board.
- 1 6. The method of claim 3 including engaging a catch
2 on said lower portion with a spring biased rod in said
3 upper portion.
- 1 7. The method of claim 6 including releasing said
2 catch by rotating said rod.

1 8. The method of claim 7 including preventing
2 rotation of said rod.

1 9. The method of claim 8 wherein preventing rotation
2 includes using a flanged end on said rod which engages a
3 releasable lock.

1 10. The method of claim 9 including using an
2 extending end of said rod opposite said flanged end of said
3 rod to engage said catch and to be released from said catch
4 when said rod is rotated.

1 11. A method comprising:
2 arranging a heat sink assembly to releasably plug
3 into a printed circuit board.

1 12. The method of claim 11 including making an upper
2 portion of said assembly into a lower portion of said
3 assembly, said upper portion connectable to a heat sink and
4 said lower portion connectable to a printed circuit board.

1 13. The method of claim 12 including enabling said
2 upper and lower portions to telescopically plug into one
3 another.

1 14. The method of claim 13 including enabling said
2 lower portion to releasably plug lock in a printed circuit
3 board.

1 15. The method of claim 14 including enabling said
2 lower portion to plug into a hole in a printed circuit
3 board.

1 16. The method of claim 13 including enabling a
2 spring biased rod in said upper portion to engage a catch
3 on said lower portion.

1 17. The method of claim 16 including enabling said
2 catch to be released by rotating said rod.

1 18. The method of claim 17 including providing a way
2 to prevent rotation of said rod.

1 19. The method of claim 18 including providing a
2 flanged end on said rod to engage a releasable lock to
3 prevent rotation of said rod.

1 20. The method of claim 19 including providing an
2 extending end on said rod opposite said flanged end of said
3 rod to engage said catch and to be released from said catch
4 when said rod is rotated.

1 21. A heat sink assembly comprising:
2 a telescoping first portion to engage a printed
3 circuit board;
4 a telescoping second portion to engage a heat
5 sink to be attached to said printed circuit board; and
6 said first portion and said second portion
7 releasably locking together when said first portion is
8 plugged into said second portion.

1 22. The assembly of claim 21 wherein said first
2 portion includes a pair of cammed members that deflect
3 inwardly into said first portion when said first portion
4 engages a printed circuit board and snap outwardly after
5 said first portion is plugged into said printed circuit
6 board, releasably holding said first portion in said
7 printed circuit board.

1 23. The assembly of claim 22 wherein said first
2 portion includes a pair of opposed L-shaped catch members.

1 24. The assembly of claim 23 wherein said first
2 portion is cylindrical having a closed end and an open end,
3 said open end to receive said second portion, said closed
4 end mounting said catches.

1 25. The assembly of claim 21 wherein said second
2 portion includes a tubular member that slides within said
3 first portion.

1 26. The assembly of claim 25 wherein said tubular
2 member includes threads to threadedly secure said second
3 portion to a heat sink.

1 27. The assembly of claim 25 including a rod
2 reciprocatable within said tubular member, said rod having
3 opposed ends, one of said ends to engage the catches in
4 said first portion.

1 28. The assembly of claim 27 wherein said rod is
2 spring biased.

1 29. The assembly of claim 27 wherein the free end of
2 said rod to releasably engage said catches and to be
3 releasable upon rotation of said rod.

1 30. The assembly of claim 29 wherein the upper
2 surface of said tubular member of said second portion
3 includes a locking member to prevent rotation of said rod
4 to release said free end of said rod from said catch in
5 said first portion.

1 31. The assembly of claim 21 including a heat sink
2 secured to said second portion.

1 32. The assembly of claim 31 including a printed
2 circuit board secured to said first portion.